

FILE ID**DETACHED

E 11

DDDDDDDD DDDDDDDDD EEEEEEEEEE EEEEEEEEEE TTTTTTTTTT TTTTTTTTTT AAAAAAA AAAAAAA CCCCCCCCCC CCCCCCCCCC HH HH HH HH EEEEEEEEEE EEEEEEEEEE DDDDDDDDD DDDDDDDDD DD DD EE TT AA AA CC HH HH EE DD DD EE TT AA AA CC HH HH EE DD DD EE TT AA AA CC HH HH EE DD DD EE TT AA AA CC HH HH EE DD DD EEEEEEEE TT AA AA CC HHHHHHHHHHH EEEEEEEE DD DD EEEEEEEE TT AA AA CC HHHHHHHHHHH EEEEEEEE DD DD EE TT AAAAAAAA CC HH HH EE DD DD EE TT AAAAAAAA CC HH HH EE DD DD EE TT AA AA CC HH HH EE DD DD EEEEEEEE TT AA AA CCCCCCCCCC HH HH HH EEEEEEEE DDDDDDDDD DDDDDDDDD

```
1 0001 0 MODULE detached (IDENT = 'V04-000',  
2 0002 0     ADDRESSING_MODE(INTERNAL = GENERAL)) =  
3 0003 1 BEGIN  
4 0004 1  
5 0005 1  
6 0006 1 *****  
7 0007 1 *  
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26 0026 1 *  
27 0027 1 *****  
28 0028 1  
29 0029 1 **  
30 0030 1 FACILITY: Login  
31 0031 1  
32 0032 1 ABSTRACT:  
33 0033 1  
34 0034 1     This module handles all processing specific to detached jobs.  
35 0035 1  
36 0036 1 ENVIRONMENT:  
37 0037 1  
38 0038 1     VAX/VMS operating system.  
39 0039 1  
40 0040 1 AUTHOR: Tim Halvorsen, March 1981  
41 0041 1  
42 0042 1 Modified by:  
43 0043 1  
44 0044 1     V03-013 MHB0147      Mark Bramhall      7-May-1984  
45 0045 1     Guard again no global buffers when opening NETUAF.  
46 0046 1  
47 0047 1     V03-012 MHB0125      Mark Bramhall      10-Apr-1984  
48 0048 1     Set node name, etc. via SET_NODE_NAME.  
49 0049 1     Disallow network access to accounts with secondary passwords.  
50 0050 1     Fix up network output file name scanning.  
51 0051 1  
52 0052 1     V03-011 MHB0107      Mark Bramhall      21-Mar-1984  
53 0053 1     Use LNM services for logical names.  
54 0054 1  
55 0055 1     V03-010 PCG0001      Peter George      31-Jan-1984 15:10  
56 0056 1     Add secondary password to network processing.  
57 0057 1     Correct bug in interpreting batch item list.
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65 0065 1 |
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72 0072 1 |
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V03-009 ACG0385 Andrew C. Goldstein, 29-Dec-1983 9:59
Implement job type in JIB; fix coding of field references
to proxy file record. Change UAF working set fields
to longwords.

V03-008 ACG0376 Andrew C. Goldstein, 22-Nov-1983 17:16
Interface cleanup with VALIDATE_UAFREC; fix error handling
in GET_PROXY. Put batch input file name in PPD\$T_FILENAME.

V03-007 GAS0183 Gerry Smith 16-Sep-1983
For network logins, rearrange the code so that the
node name gets set early on. This helps in both
accounting and breakin evasion.

V03-006 GAS0164 Gerry Smith 30-Jul-1983
Change the method of disabling logical name translation
in RMS calls to use the new ALMODES field.

V03-005 MLJ0115 Martin L. Jack, 29-Jul-1983 10:29
Update for new log file error handling.

V03-004 GAS0137 Gerry Smith 26-May-1983
Do not signal a SSNDJBC error when terminating a batch job.

V03-003 GAS0123 Gerry Smith 19-Apr-1983
Change interface to use SNDJBC for batch jobs. Also,
if proxy access is requested and the NETUAF cannot be
accessed, signal with a fatal error.

V03-002 GAS0097 Gerry Smith 4-Jan-1983
Fix the case of proxy login for wildcard entries.

V03-001 GAS0057 Gerry Smith 17-Mar-1982
Fix FABS to disable all but system
logical name translation during open/creates.

V03-010 MLJ34580 Martin L. Jack, 1-Feb-1982 0:55
Make use of extensions to DJT record to set name and /NOTIFY
status for log file print job. Correct queue name translation
so that explicit queue name is not translated and implicit
SYSS\$PRINT uses standard queue-name translation modiroutine.

V03-009 GAS0032 Gerry Smith 07-Jan-1982
On proxy login, if no UAF record is found, return
FALSE to indicate lookup failure.

V03-008 GAS0031 Gerry Smith 04-Jan-1982
Remove NETUAF structure definitions from this module.
\$NAFDEF now resides in LIB.RCQ.

V03-007 SPF0050 Steve Forgey 01-Jan-1982
Store remote node info in P1 space for network jobs.

V03-006 GAS0029 Gerry Smith 31-Dec-1981
Add proxy login for network jobs.

115 0115 1 | V03-005 HRJ0032 Herb Jacobs 12-Nov-1981
116 0116 1 | Process batch queue WSEXTENT if passed, validate username
117 0117 1 | as valid for batch job, and allow handler to stop a batch
118 0118 1 | job.
119 0119 1 |
120 0120 1 | V004 TMH0004 Tim Halvorsen 26-Oct-1981
121 0121 1 | Get ORIGUIC and OUTFNM from LGI area rather than from PPD.
122 0122 1 | Add extra acmode argument to calls to exec_crelog
123 0123 1 | Make use of global SYSSERROR descriptor, rather than
124 0124 1 | re-translating the logical name again here.
125 0125 1 |
126 0126 1 | V003 GWF0073 Gary Fowler 27-Jul-1981
127 0127 1 | Change job name to ASCII string. Increase maximum length of
128 0128 1 | message that can be received from the job controller
129 0129 1 |
130 0130 1 | V002 TMH0002 Tim Halvorsen 16-Jul-1981
131 0131 1 | Reference SHRLIB\$ for shared require files.
132 0132 1 |
133 0133 1 | V03-001 GWF0051 Gary W. Fowler 29-May-1981
134 0134 1 | Add file size in message sent when log file is queued for
135 0135 1 | printing.
136 0136 1 | --
137 0137 1 |
138 0138 1 |
139 0139 1 | Include files
140 0140 1 |
141 0141 1 |
142 0142 1 LIBRARY 'SY\$LIBRARY:LIB'; ! VAX/VMS system definitions
143 0143 1 REQUIRE 'SHRLIB\$:UTILDEF'; ! Common BLISS definitions
0328 0329 1 REQUIRE 'LIBS:PPDDEF'; ! Process permanent data region
0476 1 REQUIRE 'LIBS:LGIDEF'; ! LOGINOUT private permanent storage

148 0547 1 | Table of contents
149 0548 1 |
150 0549 1 |
151 0550 1 |
152 0551 1 FORWARD ROUTINE
153 0552 1 init_batch: NOVALUE, | Initialize batch job step
154 0553 1 stop_batch_job: NOVALUE, | Stop batch job stream
155 0554 1 terminate_batch: NOVALUE, | Stop a batch job
156 0555 1 init_network: NOVALUE, | Initialize network job
157 0556 1 get_proxy: NOVALUE, | Get proxy username
158 0557 1 |
159 0558 1 |
160 0559 1 External routines
161 0560 1 |
162 0561 1 |
163 0562 1 EXTERNAL ROUTINE
164 0563 1 close_output: NOVALUE, | Close primary output file
165 0564 1 validate_uafrec: NOVALUE, | Read/validate UAF record
166 0565 1 get_uafrec: NOVALUE, | Read UAF record without validation
167 0566 1 logout_message: NOVALUE, | Write logout message
168 0567 1 map_imact: NOVALUE, | Map image activator code segment
169 0568 1 create_logical: NOVALUE, | Create logical name with LNM services
170 0569 1 set_sysprv: NOVALUE, | Turn on SYSPRV
171 0570 1 clear_sysprv: NOVALUE, | Turn off SYSPRV
172 0571 1 set_uic: NOVALUE, | Set process UIC
173 0572 1 set_node_name: NOVALUE, | Set remote node info in P1 space
174 0573 1 exit_process: NOVALUE, | Exit the process
175 0574 1 lib\$fid_to_name: NOVALUE, | Translate file ID to file name
176 0575 1 |
177 0576 1 |
178 0577 1 Define literals
179 0578 1 |
180 0579 1 |
181 0580 1 |
182 0581 1 |
183 0582 1 Define message codes
184 0583 1 |
185 0584 1 |
186 0585 1 EXTERNAL LITERAL
187 0586 1 lgi\$_jbcmixup,
188 0587 1 lgi\$_userauth,
189 0588 1 lgi\$_netuafacc;
190 0589 1 |
191 0590 1 |
192 0591 1 External storage
193 0592 1 |
194 0593 1 |
195 0594 1 EXTERNAL
196 0595 1 pcb_sts: BITVECTOR, | PCB status flags
197 0596 1 job_type: | Job type code for JIB
198 0597 1 input_fab: BBLOCK, | Input FAB
199 0598 1 input_nam: BBLOCK, | Input NAM
200 0599 1 output_fab: BBLOCK, | Output FAB
201 0600 1 output_nam: BBLOCK, | Output NAM
202 0601 1 uaf_record: REF BBLOCK, | Address of UAF record
203 0602 1 sys\$input: VECTOR, | Translation of SY\$INPUT
204 0603 1 sys\$output: VECTOR, | Translation of SY\$OUTPUT

DETACHED
V04-000

J 11
16-Sep-1984 01:59:01 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:41:05 [LOGIN.SRC]DETACHED.B32;1

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```
: 205      0604 1  sys$error:      VECTOR,      ! Translation of SYS$ERROR
: 206      0605 1  ctl$ag_clidata:    ! Process permanent data storage
: 207      0606 1
: 208      0607 1  BIND
: 209      0608 1  ppd = ctl$ag_clidata: BBLOCK;  ! Address of PPD structure
: 210      0609 1
: 211      0610 1
```

```
213      0611 1 GLOBAL ROUTINE init_batch: NOVALUE =
214      0612 1
215      0613 1 |---|
216      0614 1 |---|
217      0615 1 |---| Perform batch initialization by requesting the job parameters
218      0616 1 |---| from the job controller.
219      0617 1
220      0618 1 |---| Inputs:
221      0619 1 |---| None
222      0620 1
223      0621 1 |---| Outputs:
224      0622 1
225      0623 1 |---| uaf_record = Address of UAF record for user
226      0624 1 |---|
227      0625 1 |---|
228      0626 1
229      0627 2 BEGIN
230      0628 2
231      0629 2 OWN
232      0630 2 jobname: VECTOR [43,BYTE], ! Must be static to be passed back
233      0631 2 logfile: VECTOR [nam$c_maxrss,BYTE]; ! to caller as output filespec
234
235      0632 2 LOCAL
236      0633 2
237      0634 2 username : VECTOR[2] ! Descriptor for username
238      0635 2 INITIAL(REP 2 OF (0)),
239      0636 2 logdesc: VECTOR [2], ! Logical name descriptor
240      0637 2 logname: VECTOR [2,BYTE], ! 2 character logical name
241      0638 2 ptr : REF VECTOR[,WORD],
242      0639 2 length,
243      0640 2 buffer : VECTOR[500], ! SNDJBC message buffer
244      0641 2 flags : REF $BBLOCK INITIAL (0); ! Flags from job controller
245
246      0642 2
247      0643 2 |---| Check to see if at early termination of batch job.
248      0644 2
249      0645 2 IF .ppd [ppd$w_outifi] NEQ 0 ! If not first job step,
250      0646 2 AND NOT .ppd [ppd$!_lststatus] ! and job step failed,
251      0647 2 AND ((.ppd [ppd$!_lststatus] AND 6) NEQ 0) ! and its an error or fatal,
252      0648 3 THEN
253      0649 2 terminate_batch(0); ! Stop the batch job
254
255      0650 2
256      0651 2 |---| Request detached job step initialization parameters from job controller
257      0652 2
258      0653 2 BEGIN
259      0654 2 LOCAL
260      0655 3
261      0656 3 |---| status,
262      0657 3 iosb : VECTOR[2],
263      0658 3 itmlst : $ITMLST_DECL(ITEMS = 1);
264      0659 3
265      0660 3
266      0661 3 |---| $ITMLST_INIT(ITMLST = itmlst,
267      0662 3 (ITMCOD = sjc$batch_output,
268      0663 3 BUFSIZ = %ALLOCATION(buffer),
269      0664 3 BUFADR = buffer));
270      0665 3 |---| status = $SNDJBCW(FUNC = sjc$batch_service,
271      0666 3 ITMLST = itmlst,
272      0667 3 IOSB = iosb);
```

```
270      0668 3 IF .status
271      0669 3 THEN status = .iosb[0];
272      0670 3 IF NOT .status
273      0671 3 THEN SIGNAL_STOP(.status);
274      0672 2 END;
275      0673 2
276      0674 2
277      0675 2 | Find the flags longword and the username.
278      0676 2
279      0677 2 ptr = buffer;
280      0678 2 WHILE true DO
281      0679 3 BEGIN
282      0680 3 IF .ptr[1] EQL 0
283      0681 3 THEN EXITLOOP;
284      0682 3 IF .ptr[1] EQL djisk_flags
285      0683 3 THEN
286      0684 4 BEGIN
287      0685 4   flags = ptr[2];
288      0686 4   IF .flags[djiv$terminate]
289      0687 4     THEN stop_batch_job(.flags, buffer, 0);
290      0688 4   IF .flags[djiv$delete_file]
291      0689 4     THEN input_tab[tab$v_d[t]] = true;
292      0690 4   IF .flags[djiv$restarting]
293      0691 4     THEN ppd[ppd$v_restart] = true;
294      0692 4   IF .username[1] NEQ 0
295      0693 4     OR ppd[ppd$w_outif] NEQ 0
296      0694 4     THEN EXITLOOP;
297      0695 4   END
298      0696 3 ELSE IF .ptr[1] EQL djisk_username
299      0697 3 THEN
300      0698 4 BEGIN
301      0699 4   username[1] = ptr[2];
302      0700 4   IF .flags NEQ 0
303      0701 4     THEN EXITLOOP;
304      0702 3   END;
305      0703 3   ptr = ptr[2] + .ptr[0];
306      0704 2 END;
307      0705 2
308      0706 2
309      0707 2 | If this is the first job step, then do first_time_thru stuff.
310      0708 2
311      0709 2 IF .ppd [ppd$w_outifi] EQL 0      ! If this the first job step.
312      0710 2 THEN
313      0711 3 BEGIN
314      0712 3   job_type = jib$e_batch;
315      0713 3   !***username [0] = uaf$u_username;      ! Setup descriptor of user name
316      0714 3   username [0] = 12;                  ! Setup descriptor of user name
317      0715 3   get_uafrec(username);            ! Get user's UAF record
318      0716 3   IF .uaf_record EQL 0
319      0717 3   THEN
320      0718 3     SIGNAL_STOP(lgi$userauth);      ! signal fatal error
321      0719 2   END;
322      0720 2
323      0721 2
324      0722 2 | Now to go thru all the data items in BUFFER, setting up the input and
325      0723 2 output files as indicated, as well as working set parameters and cpu
326      0724 2 time limit, if first job step.
```

```

327 0725 3 !  

328 0726 3 logdesc[0] = 2; ! Set up the logical name descriptor  

329 0727 3 logdesc[1] = logname;  

330 0728 3 logname[0] = 'P';  

331 0729 3  

332 0730 3 output fab[fab$b_fn] = 0; ! Initialize the file name  

333 0731 3 ptr = buffer;  

334 0732 3 WHILE true DO  

335 0733 3 BEGIN  

336 0734 3 CASE .ptr[1] FROM 0 TO djik_wsquota OF  

337 0735 3 SET  

338 0736 3 [0] : EXITLOOP;  

339 0737 3  

340 0738 3 [djik_wsdefault] :  

341 0739 3 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wsdefault  

342 0740 3 THEN  

343 0741 4 BEGIN  

344 0742 4 IF .flags[djik$w_use_wsdefault]  

345 0743 5 THEN uaf_record[uaf$1_dfwscnt] = .(ptr[2])  

346 0744 4 ELSE uaf_record[uaf$1_dfwscnt] = MINU(.(ptr[2]),  

347 0745 4 .uaf_record[uaf$1_dfwscnt]);  

348 0746 3  

349 0747 3  

350 0748 3 [djik_wextent] :  

351 0749 3 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wextent  

352 0750 3 THEN  

353 0751 4 BEGIN  

354 0752 4 IF .flags[djik$w_use_wextent]  

355 0753 5 THEN uaf_record[uaf$1_wextent] = .(ptr[2])  

356 0754 4 ELSE uaf_record[uaf$1_wextent] = MINU(.(ptr[2]),  

357 0755 4 .uaf_record[uaf$1_wextent]);  

358 0756 3  

359 0757 3  

360 0758 3 [djik_wsquota] :  

361 0759 3 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wsquota  

362 0760 3 THEN  

363 0761 4 BEGIN  

364 0762 4 IF .flags[djik$w_use_wsquota]  

365 0763 5 THEN uaf_record[uaf$1_wsquota] = .(ptr[2])  

366 0764 4 ELSE uaf_record[uaf$1_wsquota] = MINU(.(ptr[2]),  

367 0765 4 .uaf_record[uaf$1_wsquota]);  

368 0766 3  

369 0767 3  

370 0768 3 [djik_cpu_maximum] :  

371 0769 3 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set CPU time limit  

372 0770 3 THEN  

373 0771 4 BEGIN  

374 0772 4 IF .flags[djik$w_use_cpu_maximum]  

375 0773 5 THEN uaf_record[uaf$1_cputim] = .(ptr[2])  

376 0774 4 ELSE uaf_record[uaf$1_cputim] = MINU(.(ptr[2])-1, ! So that 0 > all others  

377 0775 4 .uaf_record[uaf$1_cputim]-1) + 1;  

378 0776 3  

379 0777 3  

380 0778 3 [djik_job_name] :  

381 0779 4 BEGIN  

382 0780 4 length = .ptr[0]; ! Setup output log file name from job name  

383 0781 4 CH$MOVE(.length,

```

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384 0782 4
385 0783 4
386 0784 4
387 0785 4
388 0786 4
389 0787 3
390 0788 3
391 0789 3
392 0790 4
393 0791 4
394 0792 4
395 0793 4
396 0794 4
397 0795 4
398 0796 3
399 0797 3
400 0798 3
401 0799 4
402 0800 4
403 0801 4
404 0802 4
405 0803 4
406 0804 4
407 0805 4
408 0806 4
409 0807 4
410 0808 4
411 0809 4
412 0810 4
413 0811 4
414 0812 4
415 0813 4
416 0814 4
417 0815 4
418 0816 3
419 0817 3
420 0818 3
421 0819 4
422 0820 4
423 0821 4
424 0822 4
425 0823 4
426 0824 4
427 0825 4
428 0826 4
429 0827 4
430 0828 3
431 0829 3
432 0830 3
433 0831 4
434 0832 4
435 0833 4
436 0834 4
437 0835 4
438 0836 4
439 0837 4
440 0838 4

        ptr[2],
        jobname);
CH$MOVE(4, UPLIT BYTE('.LOG'), jobname + .length);
output_fab [fab$1_dna] = jobname; ! Set default to <jobname>.LOG
output_fab [fab$1_dns] = .length + 4;
END;

[djisk_log_specification] :
BEGIN
        ! Set up the log file name
output_fab [fab$1_fns] = .ptr[0];
output_fab [fab$1_fna] = logfile;
CH$MOVE(.ptr[0],
        ptr[2],
        logfile);
END;

[djisk_file_identification] : ! Batch input file
BEGIN
LOCAL
        name_desc : VECTOR [2],
        dvi_desc : VECTOR [2],
        name_length : WORD;
CH$MOVE(ppd$C_dvifid,
        ptr[2],
        input nam[nam$1_dvi]);
input_fab [fab$1_nam] = true; ! Mark to open input by NAM block
        ! Get input file name for CLI
name_desc[0] = ppd$S_filename-1;
name_desc[1] = ppd[ppd$1_filename]+1;
dvi_desc[0] = VECTOR [input nam[nam$1_dvi], 0; ,BYTE];
dvi_desc[1] = input nam[nam$1_dvi]+1;
IF lib$fid_to_name (dvi_desc, input_nam[nam$1_fid],
        name_desc, name_length)
THEN VECTOR [ppd[ppd$1_filename], 0; ,BYTE] = .name_length;
END;

[djisk_parameter_1 TO djisk_parameter_8] :
BEGIN
LOCAL
        desc: VECTOR[2];
desc[0] = .ptr[0];
desc[1] = ptr[2];
logname [1] = '1' + .ptr[1] - djisk_parameter_1;
create_logical(logdesc,
        ! Create Pn logical name
        desc,
        psl$c_user);
END;

[djisk_restart] :
BEGIN
LOCAL
        desc : VECTOR[2];
desc[0] = .ptr[0];
desc[1] = ptr[?];
create_logical(%ASCID 'BATCH$RESTART',
        desc,
        psl$c_user);
```

```

: 441 0839 3 END;
: 442 0840 3
: 443 0841 3 [INRANGE] : true;
: 444 0842 3 [OUTRANGE] : true;
: 445 0843 3 TES;
: 446 0844 3 ptr = ptr[2] + .ptr[0];
: 447 0845 2 END;
: 448 0846 2
: 449 0847 2 IF .flags[dji$v_log_null]
: 450 0848 2 THEN
: 451 0849 3 BEGIN
: 452 0850 3 output_fab [fab$b_fns] = 4;
: 453 0851 3 output_fab [fab$1_fna] = UPLIT BYTE('_NL:');
: 454 0852 2 END;
: 455 0853 2
: 456 0854 2
: 457 0855 1 END;

```

```

.TITLE DETACHED
.IDENT \V04-000\
.PSECT $PLIT$,NOWRT,NOEXE,2

00 00 54 52 41 54 53 45 52 24 48 47 4F 4C 2E 00000 P.AAA: .ASCII \.LOG\
00 00 54 52 41 54 53 45 52 24 48 43 54 41 42 00004 P.AAC: .ASCII \BATCH$RESTART\<0><0><0>
00 00 54 52 41 54 53 45 52 24 48 43 54 41 42 00013 P.AAB: .LONG 17694733
00 00 54 52 41 54 53 45 52 24 48 43 54 41 42 00014 P.AAC: .ADDRESS P.AAC
00 00 54 52 41 54 53 45 52 24 48 43 54 41 42 00018 P.AAD: .ASCII \_NL:\
3A 4C 4E 5F 0001C P.AAD: .PSECT $OWNS,NOEXE,2

00000 JOBNAME:.BLKB 43
0002B .BLKB 1
0002C LOGFILE:.BLKB 255

```

```

.EXTRN CLOSE_OUTPUT, VALIDATE_UAFREC
.EXTRN GET_UAFREC, LOGOUT_MESSAGE
.EXTRN MAP_IMGACT, CREATE_LOGICAL
.EXTRN SET_SYSPPR, CLEAR_SYSPPR
.EXTRN SET_UIC, SET_NODE_NAME
.EXTRN EXIT_PROCESS, LIB$FID TO NAME
.EXTRN LGIS$JBCMIXUP, LGIS$USERAUTH
.EXTRN LGIS$NETUAFACC, PCB$STS
.EXTRN JOB_TYPE, INPUT_FAB
.EXTRN INPUT_NAM, OUTPUT_FAB
.EXTRN OUTPUT_NAM, UAF_RECORD
.EXTRN SYS$INPUT, SYS$OUTPUT
.EXTRN SYS$ERROR, CTL$AG_CLIDATA
.EXTRN SYS$NDJB$W

```

```

.PSECT $CODE$,NOWRT,2
.ENTRY INIT_BATCH, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 0611
R10,R11
MOVAB UAF_RECORD, R11

```

```

OFFC 00000
5B 0000000G 00 9E 00002

```

5A 00000000G	00	9E 00009	MOVAB	OUTPUT_FAB+52, R10	
59 00000000G	00	9E 00010	MOVAB	PPD+36, R9	
5E F800	CE	9E 00017	MOVAB	-2048(SP), SP	
	F8	AD 7C 0001C	CLRQ	USERNAME	0627
		57 D4 0001F	CLRL	FLAGS	
		69 B5 00021	TSTW	PPD+36	
		11 13 00023	BEQL	1\$	0646
0D	F4	A9 E8 00025	BLBS	PPD+24, 1\$	0647
06	F4	A9 93 00029	BITB	PPD+24, #6	0648
		37 13 0002D	BEQL	1\$	
		7E D4 0002F	CLRL	-(SP)	0650
0000V	CF	01 FB 00031	CALLS	#1, TERMINATE_BATCH	
	50	AE 9E 00036	MOVAB	ITMLST, \$\$ITMBLKPTR	0664
	80	000B07D0	MOVL	#722896, (\$\$ITMBLKPTR)+	
	80	20 AE 9E 00041	MOVAB	BUFFER, (\$\$ITMBLKPTR)+	
		80 7C 00045	CLRQ	(\$\$ITMBLKPTR)+	
		7E 7C 00047	CLRL	-(SP)	0667
		20 AE 9F 00049	PUSHAB	IOSB	
		14 AE 9F 0004C	PUSHAB	ITMLST	
	7E	07 7D 0004F	MOVQ	#7, -(SP)	
00000000G	00	7E D4 00052	CLRL	-(SP)	
	07	07 FB 00054	CALLS	#7, SYSS SNDJBCW	0668
	50	50 E9 00058	BLBC	STATUS, 2\$	0669
	09	18 AE 0005E	MOVL	IOSB, STATUS	0670
00000000G	00	50 E8 00062	BLBS	STATUS, 3\$	0671
	56	50 DD 00065	PUSHL	STATUS	
	50	20 AE 9E 0006E	CALLS	#1, LIB\$STOP	
	02	4E 3C 00072	MOVAB	BUFFER, PTR	0677
		4D 13 00076	MOVZWL	2(PTR), R0	0680
	03	50 B1 00078	BEQL	11\$	
		30 12 0007B	CMPW	R0, #3	0682
0C	57	04 A6 9E 0007D	BNEQ	8\$	
	67	06 E1 00081	MOVAB	4(R6), FLAGS	0685
		7E D4 00085	BBC	#6, (FLAGS), 5\$	0686
		24 AE 9F 00087	CLRL	-(SP)	0687
0000V	CF	57 DD 0008A	PUSHAB	BUFFER	
	08	03 FB 0008C	PUSHL	FLAGS	
04	00000000G	67 E9 00091	CALLS	#3, STOP_BATCH_JOB	
	00	80 8F 00094	BLBC	(FLAGS), 6\$	0688
	67	05 E1 0009C	BISB2	#128, INPUT_FAB+5	0689
	DE	10 88 000A0	BBC	#5, (FLAGS), 7\$	0690
	A9	FC AD D5 000A4	BISB2	#16, PPD+2	0691
		1C 12 000A7	TSTL	USERNAME+4	0692
		69 B5 000A9	BNEQ	11\$	
		0C 11 000AB	TSTW	PPD+36	0693
	10	50 B1 000AC	BRB	9\$	
		09 12 000B0	CMPW	R0, #16	0696
FC	AD	04 A6 9E 000B2	BNEQ	10\$	
		57 D5 000B7	MOVAB	4(R6), USERNAME+4	0699
		0A 12 000B9	TSTL	FLAGS	0700
50		66 3C 000BB	BNEQ	11\$	
56		10\$	MOVZWL	(PTR), R0	0703
	04 A046	9E 000BE	MOVAB	4(R0)[PTR], PTR	
		AD 11 000C3	BRB	4\$	0678
		69 B5 000C5	TSTW	PPD+36	0709
00000000G	00	26 12 000C7	BNEQ	12\$	
		02 D0 000C9	MOVL	#2, JOB_TYPE	0712

61	50	D1	00179	CMPL	R0	(R1)		
50	03	1B	0017C	BLEQU	22\$			
61	61	DO	C017E	21\$:	MOVL	(R1), R0	0764	
	50	DO	00181	22\$:	MOVL	R0, (R1)	0759	
	5E	11	00184		BRB	30\$	0769	
	69	B5	00186	23\$:	TSTW	PPD+36		
	5A	12	00188		BNEQ	30\$		
	50	6B	0018A		MOVL	UAF RECORD, R0	0773	
	50	CO	0018D		MOVAB	556(R0), R0		
	67	95	00192		TSTB	(FLAGS)	0772	
	06	18	00194		BGEQ	24\$		
	60	A6	00196		MOVL	4(PTR), (R0)	0773	
	52	48	11	0019A	BRB	30\$		
51	04	A6	01	C3 0019C	24\$:	SUBL3	#1, 4(PTR), R2	0774
	60	60	01	C3 001A1		SUBL3	#1, (R0), R1	0775
	51	52	D1	001A5		CMPL	R2, R1	
	52	03	1B	001A8		BLEQU	25\$	
	60	51	DO	001AA		MOVL	R1, R2	
	60	60	A2	9E 001AD	25\$:	MOVAB	1(R2), (R0)	
			79	11	001B1	BRB	32\$	0769
			66	3C	001B3	MOVZWL	(PTR), LENGTH	0780
0000' CF	04	A6	58	58	28	MOVC3	LENGTH, 4(PTR), JOBNAME	0782
	FC	9E	0000' CF	0000' CF	9F	PUSHAB	JOBNAME[LENGTH]	0784
01 AA	AA	58	0000' CF	0000' CF	DO	MOVAB	P.AAA, a(SP)+	
		58	04	9E	001C7	ADDB3	JOBNAME, OUTPUT_FAB+48	0785
			58	11	001D2	BRB	#4 LENGTH, OUTPUT_FAB+53	0786
			6A	66	001D4	MOVB	32\$	0734
0000' CF	04	A6	F8	AA	0000' CF	29\$:	(PTR), OUTPUT_FAB+52	0791
			66	9E	001D7	MOVAB	LOGFILE, OUTPUT_FAB+44	0792
			66	28	001DD	MOVC3	(PTR), 4(PTR), LOGFILE	0794
00000000G 00	04	A6	7A	11	001E4	BRB	36\$	0734
00000000G 00	00	00000000G 00	1C	28	001E6	MOVC3	#28, 4(PTR), INPUT_NAM+20	0806
	18	AE	FF	01	88	BISB2	#1, INPUT_FAB+7	0807
	1C	AE	45	8F	9A	MOVZBL	#255, NAME DESC	0809
	10	AE	00000000G	A9	9E	MOVAB	PPD+105, NAME_DESC+4	0810
	14	AE	00000000G	00	9A	MOVZBL	INPUT_NAM+20, DVI_DESC	0811
				00	00200	MOVAB	INPUT_NAM+21, DVI_DESC+4	0812
				9E	00208	PUSHL	SP	0813
				5E	DD 00210	PUSHAB	NAME_DESC	
				1C	AE 00212	PUSHAB	INPUT_NAM+36	
				00	9F 00215	PUSHAB	DVI_DESC	
				1C	AE 0021B	PUSHAB	CALLS	
00000000G 00	00		04	FB	0021E	BLBC	#4, LIB\$FID_TO_NAME	
	38		50	E9	00225	MOVB	R0, 36\$	
	44	A9	6F	90	00228	BRB	NAME_LENGTH, PPD+104	0815
	18	AE	32	11	0022C	32\$:	MOVZWL	0734
05 AE	02	A6	66	3C	0022E	33\$:	(PTR), DESC	0832
	1C	AE	66	A6	9E 00232	MOVAB	4(R6), DESC+4	0823
	04		2A	81	00237	ADDB3	#42, 2(PTR), LOGNAME+1	0824
			03	DD	0023D	PUSHL	#3	0825
			1C	AE	9F 0023F	PUSHAB	DESC	
			F0	AD	9F 00242	PUSHAB	LOGDESC	
				12	11 00245	BRB	35\$	
	18	AE	66	3C	00247	34\$:	MOVZWL	0834
	1C	AE	04	A6	9E 00248	MOVAB	(PTR), DESC	0835
				03	DD 00250	PUSHL	4(R6), DESC+4	0836
				1C	AE 9F 00252	PUSHAB	#3	
				0000' CF	9F 00255	PUSHAB	DESC	
						P.AAB		

00000000G	00	03	FB 00259	35\$:	CALLS	#3, CREATE_LOGICAL
	50	66	3C 00260	36\$:	MOVZWL	(PTR) R0
	56	04	A046 9E 00263		MOVAB	4(R0)[PTR], PTR
			FE98 31 00268		BRW	13\$
09	67	02	E1 0026B	37\$:	BBC	#2, (FLAGS), 38\$
	6A	04	90 0026F		MOVAB	#4, OUTPUT_FAB+52
	F8	AA	0000' CF 9E 00272		MOVAB	P.AAD, OUTPUT_FAB+44
			04 00278	38\$.	RET	

; Routine Size: 633 bytes, Routine Base: \$CODES + 0000

```
459 0856 1 GLOBAL ROUTINE terminate_batch(signal_args : REF $BBLOCK): NOVALUE =
460 0857 1
461 0858 1 |---|
462 0859 1 |---|
463 0860 1 |--- Request a job controller termination message, then stop batch job.
464 0861 1
465 0862 1 |--- Inputs:
466 0863 1 |--- Signal arguments or 0.
467 0864 1
468 0865 1 |--- Outputs:
469 0866 1
470 0867 1 |--- Job termination, no return, exit via exit process
471 0868 1 |---|
472 0869 1
473 0870 2 BEGIN
474 0871 2
475 0872 2 LOCAL
476 0873 2 |--- status,                                ! Status return from SNDJBC
477 0874 2 |--- input_buffer:      $BBLOCK[50],      ! SNDJBC input buffer
478 0875 2 |--- buffer:          $BBLOCK[500],      ! SNDJBC output buffer
479 0876 2 |--- p : REF $BBLOCK,                  Cursor for input buffer
480 0877 2 |--- ptr : REF VECTOR[WORD],          Pointer to buffer contents
481 0878 2 |--- iosb : VECTOR[2],                Final status from SNDJBC
482 0879 2 |--- itmlst : $ITMLST_DECL(ITEMS = 2); ! SNDJBC item list
483
484 0880 2
485 0881 2
486 0882 2 |--- Initialize SNDJBC input buffer.
487 0883 2
488 0884 2
489 0885 2 p = input_buffer;
490 0886 2
491 0887 2 p[dji$w_item_code] = dji$k_input_flags; ! Inhibit return of a file
492 0888 2 p[dji$w_item_size] = 4;
493 0889 2 p = .p + dji$w_item_header;
494 0890 2 .p = dji$w_no_file;
495 0891 2 p = .p + 4;
496 0892 2
497 0893 2 IF .signal_args NEQA 0           ! If signal arguments present
498 0894 2 THEN
499 0895 3 BEGIN
500 0896 3 LOCAL
501 0897 3 |--- i:           REF $BBLOCK;      ! Pointer to item header
502 0898 3
503 0899 3 |--- i = .p;
504 0900 3 p[dji$w_item_code] = dji$w_condition_vector;
505 0901 3 p[dji$w_item_size] = 4;
506 0902 3 p = .p + dji$w_item_header;
507 0903 3 .p = .signal_args[4,0,32,0];      ! Primary condition
508 0904 3 p = .p + 4;
509 0905 3 IF .signal_args[0,0,8,0] GEQU 3
510 0906 3 THEN
511 0907 4 BEGIN
512 0908 4 |--- i[dji$w_item_size] = 8;
513 0909 4 |--- .p = .signal_args[12,0,32,0]; ! STS, if present
514 0910 4 |--- p = .p + 4;
515 0911 3 |--- END;
516 0912 3 IF .signal_args[0,0,8,0] GEQU 4
```

```

516      0913 3  THEN
517      0914 4  BEGIN
518      0915 4  i[dji$w item_size] = 12;
519      0916 4  .p = .signal_args[16,0,32,0]; ! STV, if present
520      0917 4  p = .p + 4;
521      0918 3  END;
522      0919 2  .p = 0;                                ! Zero terminate list
523
524
525
526
527      0923 2  ! Request parameters from job controller.
528
529      P 0926 2 $ITMLST_INIT(ITMLST = itmlst,
530      P 0927 2   (ITMCOD = sjc$ batch input,
531      P 0928 2   BUFSIZ = %ALLOCATION(input_buffer),
532      P 0929 2   BUFADR = input buffer),
533      P 0930 2   (ITMCOD = sjc$ batch output,
534      P 0931 2   BUFSIZ = %ALLOCATION(buffer),
535      P 0932 2   BUFADR = buffer));
536      P 0933 2 status = $SNDJBCW(FUNC = sjc$ batch_service,
537      P 0934 2   ITMLST = itmlst,
538      P 0935 2   IOSB = iosb);
539      0936 2 IF .status
540      0937 2 THEN status = .iosb[0];
541      0938 2 IF NOT .status
542      0939 2 THEN stop_batch_job(UPLIT(0), 0, .signal_args);
543
544      0941 2 !
545      0942 2 Look for the flags word. Once that is found, we can call the routine
546      0943 2 to actually stop this job.
547
548      0944 2 !
549      0945 2 ptr = buffer;
550      0946 2 WHILE .(ptr[0]) NEQ 0 DO
551      0947 3  BEGIN
552      0948 3  IF .ptr[1] EQ djisk.flags
553      0949 3  THEN stop_batch_job(ptr[2], buffer, .signal_args);
554      0950 3  ptr = ptr[2] + .ptr[0];
555      0951 2  END;
556
557      0953 2 END;

```

```

.PSECT SPLITS,NOWRT,NOEXE,2
00000000 00070 P.AAE: .LONG 0
:
```

5E	FDB4	CE	000C	00000
50	CC	AD	9E	00002
80	80010004	8F	DD	0000B

.PSECT \$CODE\$,NOWRT,2	: 0856
.ENTRY TERMINATE_BATCH, Save R2,R3	: 0885
MOVAB -588(SP), SP	: 0888
MOVAB INPUT BUFFER, P	
MOVL #2147418108, (P)+	

80	04	01	00 00012	MOVL	#1, (P)+	0890
53		AC	00 00015	MOVL	SIGNAL_ARGS, R3	0893
51		26	13 00019	BEQL	2\$	0899
80	80020004	50	00 0001B	MOVL	P, I	0901
80	04	8F	00 0001E	MOVL	#-2147352572, (P)+	0903
03		A3	00 00025	MOVL	4(R3), (P)+	0905
		63	91 00029	CMPB	(R3), #3	
		07	1F 0002C	BLSSU	1\$	
61		08	80 0002E	MOVW	#8, (I)	0908
80	0C	A3	00 00031	MOVL	12(R3), (P)+	0909
04		63	91 00035	1\$: CMPB	(R3), #4	0912
		07	1F 00038	BLSSU	2\$	
61		0C	80 0003A	MOVW	#12, (I)	0915
80	10	A3	00 0003D	MOVL	16(R3), (P)+	0916
		60	D4 00041	2\$: CLRL	(P)	0920
50		6E	9E 00043	MOVAB	ITMLST, \$\$ITMBLKPTR	0932
80	000A0032	8F	00 00046	MOVL	#655410, (\$\$ITMBLKPTR)+	
80	CC	AD	9E 0004D	MOVAB	INPUT BUFFER, (\$\$ITMBLKPTR)+	
		80	D4 00051	CLRL	(\$\$ITMBLKPTR)+	
80	000B01F4	8F	00 00053	MOVL	#721396, (\$\$ITMBLKPTR)+	
80	24	AE	9E 0005A	MOVAB	BUFFER, (\$\$ITMBLKPTR)+	
		80	7C 0005E	CLRQ	(\$\$ITMBLKPTR)+	
		7E	7C 00060	CLRQ	-(SP)	0935
		24	AE 9F 00062	PUSHAB	IOSB	
		0C	AE 9F 00065	PUSHAB	ITMLST	
7E		07	7D 00068	MOVO	#7, -(SP)	
	00000000G	00	7E 04 00068	CLRL	-(SP)	
07		07	FB 0006D	CALLS	#7, SYSSNDJBCW	0936
50		50	E9 00074	BLBC	STATUS, 3\$	0937
0D		1C	AE 00 0077	MOVL	IOSB, STATUS	0938
		50	E8 0007B	BLBS	STATUS, 4\$	0939
		53	DD 0007E	3\$: PUSHL	R3	
		7E	D4 00080	CLRL	-(SP)	
		0000V	CF 00082	PUSHAB	P.AAE	
52	CF	03	FB 00086	CALLS	#3, STOP_BATCH_JOB	0945
52	24	AE	9E 00088	4\$: MOVAB	BUFFER, PTR	0946
		62	D5 0008F	5\$: TSTL	(PTR)	
03		1D	13 00091	BEQL	7\$	
		02	A2 B1 00093	CMPW	2(PTR), #3	0948
		00	12 00097	BNEQ	6\$	0949
		53	DD 00099	PUSHL	R3	
		28	AE 9F 00098	PUSHAB	BUFFER	
0000V	CF	04	A2 9F 0009E	PUSHAB	4(PTR)	
50		03	FB 000A1	CALLS	#3, STOP_BATCH_JOB	0950
52		62	3C 000A6	MOVZWL	(PTR) R0	0946
		04 A042	9E 000A9	MOVAB	4(R0)[PTR], PTR	0954
		DF	11 000AE	BRB	5\$	
		04	000B0	7\$: RET		

; Routine Size: 177 bytes, Routine Base: \$CODES + 0279

```
559      0955 1 ROUTINE stop_batch_job (flags, buffer, signal_args): NOVALUE =
560      0956 1
561      0957 1 ---  
562      0958 1
563      0959 1 This routine is called to terminate a job stream as a result
564      0960 1 of an operator request or failure of an individual job step.
565      0961 1
566      0962 1 Inputs:
567      0963 1
568      0964 1 flags = Address of flags longword from job controller
569      0965 1 djt = Address of entire buffer from job controller
570      0966 1
571      0967 1 Outputs:
572      0968 1
573      0969 1 There is no return - the image is exited.
574      0970 1 ---  
575      0971 1
576      0972 2 BEGIN
577      0973 2
578      0974 2 MAP
579      0975 2 flags : REF $BBLOCK,           ! Address of options longword
580      0976 2 signal_args : REF $BBLOCK;   ! Address of signal arguments or 0
581      0977 2
582      0978 2 BIND
583      0979 2 lgi = .ppd [ppd$1_lgi]: BBLOCK; ! Address the LGI area
584      0980 2
585      0981 2
586      0982 2
587      0983 2 Write the logout message.
588      0984 2
589      0985 2 logout_message();           ! Write logout message
590      0986 2
591      0987 2
592      0988 2
593      0989 2 IF .flags[dji$v_log_delete]           ! If delete of output file requested
594      0990 2 AND NOT .flags[dji$v_log_spool]       ! and no print,
595      0991 2 THEN
596      0992 2   output_fab [fab$v_dlt] = true;      ! then set to delete on close
597      0993 2
598      0994 2 SCMEXEC(ROUTIN = close_output);       ! Close log file so we can print it
599      0995 2
600      0996 2 SCMKRNL(ROUTIN = set_uic, ARGLST = .lgi [lgi$1_origuic]); ! Reset UIC
601      0997 2
602      0998 2 IF .flags[dji$v_lcg_spool]           ! If output file is to be printed
603      0999 2 THEN
604      1000 3 BEGIN
605      1001 3 LOCAL
606      1002 3   wrdptr : REF VECTOR[,WORD],           ! Pointer to item list
607      1003 3   ptr : REF VECTOR,                  ! Place for queue name
608      1004 3   queue_name : VECTOR[2],           ! Place for job name
609      1005 3   INITIAL(0,0),
610      1006 3   job_name : VECTOR[2],           ! Place for job name
611      1007 3   INITIAL(0,0),
612      1008 3   itmlst : VECTOR[30],           ! Item list for SNDJBC
613      1009 3   input_buffer : VECTOR[128];      ! Batch input item
614
615      1010 3
616      1011 3 !
```

```
616      1012 3 | We need to find the queue name, as well as the job name, before starting
617      1013 3 | to fill out the itemlist.
618      1014 3 |
619      1015 3 | wrdptr = .buffer;                                ! Point at the buffer
620      1016 3 | WHILE true DO                                ! Go thru buffer
621      1017 4 | BEGIN
622      1018 4 |   IF .wrdptr[1] EQ 0
623      1019 4 |   THEN EXITLOOP;
624      1020 4 |   IF .wrdptr[1] EQ dj$K_log_queue
625      1021 4 |   THEN
626      1022 5 |     BEGIN
627      1023 5 |       queue_name[0] = .wrdptr[0];
628      1024 5 |       queue_name[1] = wrdptr[2];
629      1025 5 |       IF .job_name[1] NEQ 0
630      1026 5 |       THEN EXITLOOP;
631      1027 5 |     END
632      1028 4 |   ELSE IF .wrdptr[1] EQ dj$K_job_name
633      1029 4 |   THEN
634      1030 5 |     BEGIN
635      1031 5 |       job_name[0] = .wrdptr[0];
636      1032 5 |       job_name[1] = wrdptr[2];
637      1033 5 |       IF .queue_name[1] NEQ 0
638      1034 5 |       THEN EXITLOOP;
639      1035 4 |     END;
640      1036 4 |   wrdptr = wrdptr[2] + .wrdptr[0];
641      1037 3 | END;
642      1038 3 |
643      1039 3 | If no queue name was found, then use SYSSPRINT.
644      1040 3 |
645      1041 3 | IF .queue_name[0] EQ 0
646      1042 3 | THEN
647      1043 4 | BEGIN
648      1044 4 |   queue_name[0] = %CHARCOUNT('SYSSPRINT');
649      1045 4 |   queue_name[1] = UPLIT BYTE('SYSSPRINT');
650      1046 3 | END;
651      1047 3 |
652      1048 3 | Now to fill in the itemlist.
653      1049 3 |
654      1050 3 | ptr = itemlist;                                ! Start at beginning of item list
655      1051 3 |
656      1052 3 | The queue name is either in the JBC buffer, or else we should use
657      1053 3 | SYSSPRINT.
658      1054 3 |
659      1055 3 |   ptr[0] = sjc$queue^16 OR .queue_name[0];
660      1056 3 |   ptr[1] = .queue_name[1];
661      1057 3 |   ptr[2] = 0;
662      1058 3 |   ptr = ptr[3];
663      1059 3 |
664      1060 3 | Also put in the job name.
665      1061 3 |
666      1062 3 |   ptr[0] = sjc$job_name^16 OR .job_name[0];
667      1063 3 |   ptr[1] = .job_name[1];
668      1064 3 |   ptr[2] = 0;
669      1065 3 |   ptr = ptr[3];
670      1066 3 |
671      1067 3 | Add /NOTIFY if requested.
672      1068 3 |
```

```
673      1069 3  IF .flags[dji$v_notify]
674      1070 3  THEN
675      1071 4  BEGIN
676      1072 4  ptr[0] = sjc$_notify^16;
677      1073 4  ptr[1] = ptr[2] = 0;
678      1074 4  ptr = ptr[3];
679      1075 3  END;
680      1076 3  |
681      1077 3  | If the log file exists, add its information.
682      1078 3  |
683      1079 3  | IF CH$RCHAR(ppd$st_outdvi) NEQ 0
684      1080 3  THEN
685      1081 4  BEGIN
686      1082 4  |
687      1083 4  File ID
688      1084 4  |
689      1085 4  ptr[0] = sjc$file_identification^16 OR ppd$sc_dvifid;
690      1086 4  ptr[1] = ppd$st_outdvi;
691      1087 4  ptr[2] = 0;
692      1088 4  ptr = ptr[3];
693      1089 4  |
694      1090 4  Add /DELETE if requested.
695      1091 4  |
696      1092 4  IF .flags[dji$v_log_delete]
697      1093 4  THEN
698      1094 5  BEGIN
699      1095 5  ptr[0] = sjc$ delete_file^16;
700      1096 5  ptr[1] = ptr[2] = 0;
701      1097 5  ptr = ptr[3];
702      1098 4  END;
703      1099 4  |
704      1100 4  | The log file always gets a header page.
705      1101 4  |
706      1102 4  ptr[0] = sjc$page_header^16;
707      1103 4  ptr[1] = ptr[2] = 0;
708      1104 4  ptr = ptr[3];
709      1105 4  END
710      1106 4  |
711      1107 4  | If no log file exists, attempt to print messages.
712      1108 4  |
713      1109 3  ELSE IF .signal_args NEQA 0
714      1110 3  THEN
715      1111 4  BEGIN
716      1112 4  LOCAL
717      1113 4  i : REF SBBLOCK;      ! Pointer to item header
718      1114 4  p : REF SBBLOCK;      ! Pointer to input buffer
719      1115 4
720      1116 4
721      1117 4  p[dji$w_item_code] = dji$k_condition_vector;
722      1118 4  p[dji$w_item_size] = 4;
723      1119 4  p = .p + dji$w_item_header;
724      1120 4  .p = .signal_args[4,0,32,0];      ! Primary condition
725      1121 4  p = .p + 4;
726      1122 4  IF .signal_args[0,0,8,0] GEQU 3
727      1123 4  THEN
728      1124 5  BEGIN
729      1125 5  i[dji$w_item_size] = 8;
```

730 1126 5 .p = .signal_args[12,0,32,0]; ! STS, if present
731 1127 5 p = .p + 4;
732 1128 4 END;
733 1129 4 IF .signal_args[0,0,8,0] GEQU 4
734 1130 4 THEN BEGIN
735 1131 5 i[dji\$w_item_size] = 12;
736 1132 5 .p = .signal_args[16,0,32,0]; ! STV, if present
737 1133 5 p = .p + 4;
738 1134 5 END;
739 1135 4
740 1136 4
741 1137 4 IF .output_nam[nam\$b_rsl] NEQ 0
742 1138 4 THEN BEGIN
743 1139 5 p[dji\$w_item_code] = dji\$k_file_specification;
744 1140 5 p[dji\$w_item_size] = .output_nam[nam\$b_rsl];
745 1141 5 p = .p + dji\$w_item_header;
746 1142 5 p = CHSMOVE(
747 1143 5 .output_nam[nam\$b_rsl],
748 1144 5 .output_nam[nam\$l_rsa],
749 1145 5 :p);
750 1146 5
751 1147 5 END
752 1148 4 ELSE IF .output_nam[nam\$b_esl] NEQ 0
753 1149 4 THEN BEGIN
754 1150 5 p[dji\$w_item_code] = dji\$k_file_specification;
755 1151 5 p[dji\$w_item_size] = .output_nam[nam\$b_esl];
756 1152 5 p = .p + dji\$w_item_header;
757 1153 5 p = CHSMOVE(
758 1154 5 .output_nam[nam\$b_esl],
759 1155 5 .output_nam[nam\$l_esl],
760 1156 5 :p);
761 1157 5
762 1158 5
763 1159 4
764 1160 5 ELSE BEGIN
765 1161 5 p[dji\$w_item_code] = dji\$k_file_specification;
766 1162 5 p[dji\$w_item_size] = .output_fab[fab\$b_fns];
767 1163 5 p = .p + dji\$w_item_header;
768 1164 5 p = CHSMOVE(
769 1165 5 .output_fab[fab\$b_fns],
770 1166 5 .output_fab[fab\$l_fna],
771 1167 5 :p);
772 1168 4
773 1169 4
774 1170 4 .p = 0; ! Zero terminate list
775 1171 4 p = .p + 4;
776 1172 4
777 1173 4 ptr[0] = sjc\$batch_input^16 OR (.p - input_buffer);
778 1174 4 ptr[1] = input_buffer;
779 1175 4 ptr[2] = 0;
780 1176 4 ptr = ptr[3];
781 1177 3 END;
782 1178 3
783 1179 3 Done. Put in a zero longword
784 1180 3
785 1181 3 ptr[0] = 0;
786 1182 3

```
787      P 1183 3      $SNDJBCW(FUNC = sjc$_enter_file,
788      1184 3          ITMLST = itmlst);
789      1185 3      END;
790      1186 5
791      1187 5      SCMEXEC(ROUTIN = exit_process);      ! Terminate process
792      1188 2
793      1189 1      END;
```

.PSECT SPLIT\$,\$N\$WRT,\$NO\$EXE,\$2

54 4E 49 52 50 24 53 59 53 00024 P.AAF: .ASCII \SYSSPRINT\

.EXTRN SYSSCMEXEC, SYSSCMKRNL

.PSECT SCODE\$,NOWRT,2

07FC 00000 STOP_BATCH_JOB:

WORD Save .,2,R3,R4,R5,R6,R7,R8,R9,R10
MOVAB SYSSCMEYES D10

0955

83	50	B0	00175	MOVW	R0, (P)+	1163	
53	02	C0	00178	ADDL2	#2, P	1166	
51	A8	D0	00178	MOVL	OUTPUT FAB+44, R1	1167	
63	61	50	28 0017F	17\$:	MOVC3	R0, (RT), (P)	1170
		83	D4 00183		CLRL	(P)+	1173
	50	6E	9E 00185		MOVAB	INPUT BUFFER, R0	
	53	50	C2 00188		SUBL2	R0, R3	
66	53 000A0000	8F	C9 0018B		BISL3	#655360, R3, (PTR)	
04	A6	6E	9E 00193		MOVAB	INPUT BUFFER, 4(PTR)	1174
	08	A6	D4 00197		CLRL	8(PTR)	1175
	56	0C	C0 0019A	18\$:	ADDL2	#12, PTR	1176
		66	D4 0019D	19\$:	CLRL	(PTR)	1181
		7E	7C 0019F		CLRQ	-(SP)	1184
		7E	D4 001A1		CLRL	-(SP)	
	FF78	CD	9F 001A3		PUSHAB	ITMLST	
7E		13	7D 001A7		MOVQ	#19, -(SP)	
00000000G	00	7E	D4 001AA		CLRL	-(SP)	
		07	FB 001AC		CALLS	#7, SYSSNDJBCW	
		7E	D4 001B3	20\$:	CLRL	-(SP)	1187
	00000000G	00	9F 001B5		PUSHAB	EXIT PROCESS	
6A	6A 00000000G	02	FB 001BB		CALLS	#2, SYSSCMEXEC	
		04	001BE		RET		1189

; Routine Size: 447 bytes, Routine Base: \$CODES + 032A

```
795 1190 1 GLOBAL ROUTINE init_network: NOVALUE =
796 1191 1
797 1192 1 ---|
798 1193 1 |---|
799 1194 1 | Perform initializations of a network job. The primary logical
800 1195 1 | names have been setup by the calling process (NETACP).
801 1196 1
802 1197 1 Inputs:
803 1198 1
804 1199 1 sys$input = Name of command procedure to be invoked
805 1200 1 sys$output = 3 concatenated ASCII access control strings
806 1201 1 (username, password, account)
807 1202 1 sys$error = Network control block (NCB) for connect
808 1203 1
809 1204 1 Outputs:
810 1205 1
811 1206 1 uaf_record = Address of UAF record, if any
812 1207 1 ---|
813 1208 1
814 1209 2 BEGIN
815 1210 2
816 1211 2 LOCAL
817 1212 2   len,
818 1213 2   ptr,
819 1214 2   username:  VECTOR [2],           ! Username descriptor
820 1215 2   password:   VECTOR [2],        ! Password descriptor
821 1216 2   account:    VECTOR [2];       ! Account descriptor
822 1217 2
823 1218 2 job_type = jib$c_network;      ! Say this is a network job
824 1219 2
825 1220 2
826 1221 2 | Get logical link number from NCB and store remote node info in P1 space
827 1222 2
828 1223 2
829 1224 2 IF NOT CH$FAIL(ptr = CH$IND_CH(.sys$error [0], .sys$error [1], '/'))
830 1225 2 THEN
831 1226 2   set_node_name(..ptr + 1)<0,16>; ! Set remote node info in P1 space
832 1227 2
833 1228 2
834 1229 2 | Check to see if this network job should use the proxy login. This is
835 1230 2 | determined by checking the low bit of the first word of the string
836 1231 2 | described by the sys$output descriptor. If the bit is set, then attempt
837 1232 2 | a proxy login. If that fails, then use the access control string described
838 1233 2 | by the sys$output descriptor.
839 1234 2
840 1235 2
841 1236 2 ptr = ..sys$output[1];           ! Get first two words of SYSS$OUTPUT string
842 1237 2
843 1238 2 sys$output[0] = .sys$output[0] - 2; ! Drop flag word off SYSS$OUTPUT string
844 1239 2 sys$output[1] = .sys$output[1] + 2;
845 1240 2
846 1241 2 IF NOT
847 1242 3   BEGIN
848 1243 3     IF .ptr<0,1> THEN get_proxy() ! If low bit set then try proxy login
849 1244 3     ELSE FALSE                   ! Otherwise set FALSE
850 1245 3   END
851 1246 2 THEN
852
853
```

```
852 1247 3 BEGIN
853 1248 3     ptr = .sys$Output [1];           ! Use the access control string
854 1249 3
855 1250 3     username [0] = CH$RCHAR_A(ptr);   ! Get address of SYSS$OUTPUT string
856 1251 3     username [1] = .ptr;           ! Get length of username
857 1252 3
858 1253 3     ptr = .ptr + .username [0];   ! and address of username
859 1254 3     password [0] = CH$RCHAR_A(ptr); ! Skip to password
860 1255 3     password [1] = .ptr;           ! Get length of password
861 1256 3
862 1257 3     ptr = .ptr + .password [0]; ! and address of password
863 1258 3     account [0] = CH$RCHAR_A(ptr); ! Skip to account
864 1259 3     account [1] = .ptr;           ! Get length of account
865 1260 3
866 1261 3     IF NOT .pcb_sts [$BITPOSITION(pcb$v_login)]
867 1262 3     THEN validate_uafrec(username,           ! Lookup in UAF file
868 1263 3             password,           ! and validate the password
869 1264 3             UPLIT (0,0)); ! with a null secondary password
870 1205 2     END;
871 1266 2
872 1267 2
873 1268 2     | Create SYSS$NET logical name with contents of NCB
874 1269 2
875 1270 2
876 1271 2     create_logical(%ASCII 'SYSS$NET',           ! Define SYSS$NET
877 1272 2             sys$error,
878 1273 2             psl$c_exec);
879 1274 2
880 1275 2
881 1276 2     | If the input file has the file type .EXE, then rather than activating
882 1277 2     | the CL! and creating a log file, activate the program from a small
883 1278 2     | code segment in P1 space. This is done to optimize network job
884 1279 2     | activation time.
885 1280 2
886 1281 2
887 1282 2     IF NOT CH$FAIL(CH$FAIL_SUB(.sys$input [0], .sys$input [1],
888 1283 2             4, UPLIT BYTE('.EXE')))
889 1284 2     THEN
890 1285 3     BEGIN
891 1286 3         $CMEXEC(ROUTIN = map_imgact); ! Map the imgact code segment into P1
892 1287 3         input_fab [fab$l_fna] = UPLIT BYTE('_NL:'); ! Set input to NL:
893 1288 3         input_fab [fab$b_fns] = 4;
894 1289 3         output_fab [fab$l_fna] = .input_fab [fab$l_fna]; ! Set output to NL:
895 1290 3         output_fab [fab$b_fns] = .input_fab [fab$b_fns];
896 1291 3         RETURN; ! and return
897 1292 2     END;
898 1293 2
899 1294 2
900 1295 2     | Set default filespec for input file
901 1296 2
902 1297 2
903 1298 2     input_fab [fab$l_dna] = UPLIT BYTE('CONNECT.COM');
904 1299 2     input_fab [fab$b_dns] = 11;
905 1300 2
906 1301 2
907 1302 2     | Construct filespec of output log file for network job
908 1303 2
```

```

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1304 2
1305 2 ptr = (sys$Output [1] = sys$Input [1]);
1306 2 IF (len = (sys$Output [0] = .sys$Input [0])) NEQ 0
1307 2 THEN
1308 3 BEGIN
1309 3 DO
1310 4 BEGIN
1311 4 LOCAL
1312 4     chr: BYTE;
1313 4     chr = CH$RCHAR_A(ptr);
1314 4     IF .chr EQL ':'
1315 4     OR .chr EQL ';'
1316 4     OR .chr EQL '>'
1317 4 THEN
1318 5 BEGIN
1319 5     sys$Output [1] = .ptr;
1320 5     sys$Output [0] = .len - 1;
1321 4 END;
1322 4     len = .len - 1;
1323 4 END
1324 3 WHILE .len GTR 0;
1325 3 IF NOT CH$FAIL(ptr = CH$FIND_CH(.sys$Output [0], .sys$Output [1], '.'))
1326 3 THEN
1327 3     sys$Output [0] = CH$DIFF(.ptr, .sys$Output [1]);
1328 2 END;
1329 2
1330 2 output_fab [fab$b_fns] = .sys$Output [0]; ! Set as primary output filespec
1331 2 output_fab [fab$l_fna] = .sys$Output [1];
1332 2
1333 1 END;

```

.PSECT \$PLIT\$,NOWRT,NOEXE,2

00 54 45 4E 24 53 59 53 00000000 00030 P.AAG:	0002D .BLKB 3
010E0007 00040 P.AAH:	.LONG 0, 0
00000000' 00044 P.AAJ:	.ASCII \SYSSNET\<0>
45 58 45 2E 00048 P.AAJ:	.LONG 17694727
3A 4C 4E 5F 0004C P.AAK:	.ADDRESS P.AAI
4D 4F 43 2E 54 43 45 4E 4E 4F 43 00050 P.AAL:	.ASCII \.EXE\
	.ASCII \NL:\
	.ASCII \CONNECT.COM\

.PSECT \$CODE\$,NOWRT,2

07FC 00000	.ENTRY INIT_NETWORK, Save R2,R3,R4,R5,R6,R7,R8,R9,-: 1190
5A 0000' CF 9E 00002	MOVAB P.AAG, R10
59 00000000G 00 9E 00007	MOVAB SYS\$ERROR, R9
58 00000000G 00 9E 0000F	MOVAB OUTPUT FAB+44, R8
57 00000000G 00 9E 00015	MOVAB SYSSINPUT+4, R7
56 00000000G 00 9E 0001C	MOVAB INPUT FAB+44, R6
55 00000000G 00 9E 00023	MOVAB SYSSOUTPUT+4, R5
5E 18 C2 0002A	SUBL2 #24, SP

60	00000000G	00	01	00 00020	MOVL	#1, JOB_TYPE	1218
	50	01	A9	00 00034	MOVL	SYSSERROR+4, R0	1224
	69	01	2F	3A 00038	LOCC	#47, SYSSERROR, (R0)	
		02	12	0003C	BNEQ	1\$	
		51	D4 0003E	CLRL	R1		
		51	00 00040	1\$:	MOVL	R1, PTR	
		08	13 00043	BEQL	2\$		
	54	01	A4 3C 00045	MOVZWL	1(PTR), -(SP)	1226	
	7E	01	01 FB 00049	CALLS	#1, SET_NODE_NAME		
	00	01	65 00 00050	MOVL	SYSSOUTPUT+4, R0	1236	
	50	01	60 00 00053	MOVL	(R0), PTR		
	54	02	C2 00056	SUBL2	#2, SYSSOUTPUT	1238	
	FC	02	C0 0005A	ADDL2	#2, SYSSOUTPUT+4	1239	
	A5	02	54 E9 0005D	BLBC	PTR, 3\$	1243	
	65	00	FB 00060	CALLS	#0, GET_PROXY		
	08	00	50 E8 00065	BLBS	R0, 4\$		
	CF	00	50 00 00068	MOVL	SYSSOUTPUT+4, PTR	1248	
	39	00	84 9A 0006B	MOVZBL	(PTR)+, USERNAME	1250	
	54	10	54 00 0006F	MOVL	PTR, USERNAME+4	1251	
	10	10	AE C0 00073	ADDL2	USERNAME, PTR	1253	
	14	10	84 9A 00077	MOVZBL	(PTR)+, PASSWORD	1254	
	AE	08	54 00 0007B	MOVL	PTR, PASSWORD+4	1255	
	08	08	AE C0 0007F	ADDL2	PASSWORD, PTR	1257	
	0C	08	84 9A 00083	MOVZBL	(PTR)+, ACCOUNT	1258	
	54	04	54 00 00086	MOVL	PTR, ACCOUNT+4	1259	
	6E	04	EU 0008A	BBS	#4, PCB_STS+2, 4\$	1261	
	04	00	5A DD 00092	PUSHL	R10	1264	
	AE	0C	AE 9F 00094	PUSHAB	PASSWORD	1262	
	04	18	AE 9F 00097	PUSHAB	USERNAME		
	00	03	FB 0009A	CALLS	#3, VALIDATE_UAFREC		
	00	01	DD 000A1	4\$:	PUSHL	#1	1271
	50	01	59 DD 000A3	PUSHL	R9		
	00	10	AA 9F 000A7	PUSHAB	P_AAH		
	50	03	FB 000A8	CALLS	#3, CREATE_LOGICAL		
	00	67	00 000AF	MOVL	SYSSINPUT+4, R0	1282	
	FC	18	AA 39 000B2	MATCHC	#4, P_AAJ, SYSSINPUT, (R0)	1283	
	A7	53	03 13 000B9	BEQL	5\$		
		53	04 00 000BB	MOVL	#4, R3		
		53	04 C2 000BE	SUBL2	#4, R3		
			20 13 000C1	BEQL	6\$		
			7E D4 000C3	CLRL	-(SP)	1286	
			00 9F 000C5	PUSHAB	MAP_IMGACT		
	00	00000000G	00	02 FB 000CB	CALLS	#2, SYSSCMEXEC	
	66	1C	AA 9E 000D2	MOVAB	P_AAK, INPUT_FAB+44	1287	
	08	A6	04 90 000D6	MOVB	#4, INPUT_FAB+52	1288	
	68	08	66 00 000DA	MOVL	INPUT_FAB+44, OUTPUT_FAB+44	1289	
	08	A8	06 90 000DD	MOVB	INPUT_FAB+52, OUTPUT_FAB+52	1290	
		08	04 000E2	RET		1285	
	04	A6	20 AA 9E 000E3	6\$:	MOVAB	P_AAL, INPUT_FAB+48	1298
	09	A6	0B 90 000E8	MOVB	#11, INPUT_FAB+53	1299	
	50		67 00 000EC	MOVL	SYSSINPUT+4, R0	1305	
	65		50 00 000EF	MOVL	R0, SYSSOUTPUT+4		
	54		50 00 000F2	MOVL	R0, PTR		
	50	FC	A7 00 000F5	MOVL	SYSSINPUT, R0	1306	
	A5		50 00 000F9	MOVL	R0, SYSSOUTPUT		
			34 13 000FD	BEQL	11\$		
	51		84 90 000FF	7\$:	MOVB	(PTR)+, CHR	1313

		3A	51 91 00102	CMPB	CHR, #58	1314	
	5D 8F		0B 13 00105	BEQL	8\$	1315	
			51 91 00107	CMPB	CHR, #93	1316	
			05 13 00108	BEQL	8\$	1317	
		3E	51 91 0010D	CMPB	CHR, #62	1318	
			08 12 00110	BNEQ	9\$	1319	
	FC 65		54 00 00112	8\$:	MOVL	PTR, SYSSOUTPUT+4	
	FC A5	FF	A0 9E 00115	MOVAB	-1(R0)	SYSSOUTPUT	
			50 F5 0011A	SOBGTR	LEN 7\$	1320	
		E2	65 00 0011D	MOVL	SYSSOUTPUT+4, R2	1321	
	62 52		2E 3A 00120	LOCC	#46, SYSSOUTPUT, (R2)	1322	
			02 12 00125	BNEQ	10\$	1323	
			51 D4 00127	CLRL	R1	1324	
		54	51 00 00129	10\$:	MOVL	R1 PTR	1325
	FC A5		05 13 0012C	BEQL	11\$	1326	
	08 54		52 C3 0012E	SUBL3	R2, PTR, SYSSOUTPUT	1327	
	A8 68	FC	A5 90 00133	MOVBL	SYSSOUTPUT, OUTPUT_FAB+52	1328	
			65 00 00138	MOVL	SYSSOUTPUT+4, OUTPUT_FAB+44	1329	
			04 0013B	RET		1330	

: Routine Size: 316 bytes. Routine Base: \$CODE\$ + 04EY

```
940 1334 1 ROUTINE get_proxy =  
941 1335 1 ---  
942 1336 1  
943 1337 1  
944 1338 1 Get the local username that is mapped to the remote username.  
945 1339 1 The remote username is contained in the NCB string described  
946 1340 1 by NCB_DESC, the NCB descriptor.  
947 1341 1  
948 1342 1 Inputs:  
949 1343 1 sys$error = address of NCB descriptor  
950 1344 1  
951 1345 1 Outputs:  
952 1346 1  
953 1347 1 uaf_record = Address of UAF record, if any  
954 1348 1  
955 1349 1 Status returns:  
956 1350 1  
957 1351 1 TRUE => Proxy username found  
958 1352 1 FALSE => No proxy username found  
959 1353 1  
960 1354 1 ---  
961 1355 1  
962 1356 2 BEGIN  
963 1357 2  
964 1358 2 LOCAL  
965 1359 2 status,  
966 1360 2 netfab : BBLOCK[fab$C_bln],  
967 1361 2 netrab : BBLOCK[rab$C_bln],  
968 1362 2 net_record : BBLOCK[naf$C_length],  
969 1363 2 user_desc : VECTOR[2],  
970 1364 2 ptr,  
971 1365 2 node_len,  
972 1366 2 node_ptr,  
973 1367 2 user_len,  
974 1368 2 user_ptr;  
975 1369 2  
976 1370 2  
977 1371 2 Initialize the FAB and RAB  
978 1372 2  
P 1373 2 $FAB_INIT ( FAB = netfab,  
P 1374 2 FAC = get,  
P 1375 2 FNM = 'NETUAF',  
P 1376 2 DNM = 'SYSSYS$EM:.DAT',  
P 1377 2 SHR = (get,put,upd,del);  
984 1378 2  
985 1379 2 Disable group and process logical name translation. This must be  
986 1380 2 done manually, since $FAB_INIT doesn't know about the disable mask.  
987 1381 2  
988 1382 2 netfab[fab$V_lnm_mode] = psl$C_exec;  
989 1383 2  
P 1384 2 $RAB_INIT ( RAB = netrab,  
P 1385 2 ROP = rrl,  
P 1386 2 RAC = key,  
P 1387 2 KRF = 0,  
P 1388 2 KBF = net_record[naf$T_rennname],  
P 1389 2 KSZ = naf$S_rennname,  
P 1390 2 UBF = net_record,  
990  
991  
992  
993  
994  
995  
996
```

```
997 P 1391 2      USZ = naf$c_length,           ! Size of record
998 1392 2      FAB = netfab);
999 1393 2
1000 1394 2
1001 1395 2      ! Open NETUAF
1002 1396 2
1003 1397 2      set sysprv ();
1004 1398 2      IF NOT (status = $OPEN (FAB = netfab))
1005 1399 2      THEN
1006 1400 3      BEGIN
1007 1401 3      clear sysprv ();
1008 1402 3      IF .status EQL rms$_fnf
1009 1403 3      THEN RETURN false;
1010 1404 3      SIGNAL_STOP (lgis$netuafacc, 0, .status, .netfab[fab$1_stv]);
1011 1405 2
1012 1406 2
1013 1407 3      IF NOT (status = $CONNECT (RAB = netrab))
1014 1408 2      THEN
1015 1409 3      BEGIN
1016 1410 3      IF .status EQL rms$_crmp
1017 1411 3      THEN
1018 1412 4      BEGIN
1019 1413 4      netfab[fab$w_gbc] = 0;
1020 1414 4      status = $CONNECT (RAB = netrab);
1021 1415 3
1022 1416 3      IF NOT .status
1023 1417 3      THEN
1024 1418 4      BEGIN
1025 1419 4      clear sysprv ();
1026 1420 4      $CLOSE (FAB = netfab);
1027 1421 4      SIGNAL_STOP (lgis$netuafacc, 0, .status, .netrab[rab$1_stv]);
1028 1422 3
1029 1423 2
1030 1424 2
1031 1425 2      clear_sysprv ();
1032 1426 2
1033 1427 2
1034 1428 2      ! Get the remote node and remote username from the Network Control Block.
1035 1429 2      The NCB is an ASCII string that looks like this:
1036 1430 2
1037 1431 2      NODE::'OBJECT=USERNAME/<more stuff>'
1038 1432 2
1039 1433 2      Where NODE and USERNAME are the two fields to extract and use as a key,
1040 1434 2      to locate the record in NETUAF.DAT which contains the local username to
1041 1435 2      map to.
1042 1436 2
1043 1437 2
1044 1438 2
1045 1439 2      ! First, get the node.
1046 1440 2
1047 1441 2
1048 1442 2      ptr = CHSFIND_SUB ( .sys$error[0],           ! Search the NCB string
1049 1443 2      ;sys$error[1]
1050 1444 2      ;2, UPLIT (':::'));           ! Looking for :::
1051 1445 2
1052 1446 2
1053 1447 2      ! If the node wasn't there, then return FALSE and process with no proxy
```

```
1054 1448 2 !
1055 1449 2
1056 1450 2 IF .ptr EQL 0 OR
1057 1451 2 .ptr EQL .sys$Error[1]
1058 1452 2 THEN RETURN false;
1059 1453 2
1060 1454 2 node_len = .ptr - .sys$Error[1];           ! Store node length
1061 1455 2 node_ptr = .sys$Error[1];                 ! And starting address
1062 1456 2
1063 1457 2
1064 1458 2 | Get the username. This is done by looking for the '='', then the
1065 1459 2 | ''/'', and interpreting whatever is between the two characters as the
1066 1460 2 | username.
1067 1461 2
1068 1462 2
1069 1463 2 ptr = CH$IND_CH ( .sys$Error[0],           ! Search the NCB string
1070 1464 2 ;sys$Error[1],                         ! Looking for equal sign
1071 1465 2 ;'= );
1072 1466 2
1073 1467 2 IF .ptr EQL 0                         ! If no such character found
1074 1468 2 THEN RETURN false;                   ! return a value of FALSE
1075 1469 2
1076 1470 2 user_ptr = .ptr + 1;                 ! Compute beginning of username
1077 1471 2
1078 1472 2 ptr = CH$IND_CH ( .sys$Error[0],           ! Search the NCB string
1079 1473 2 ;sys$Error[1],                         ! Looking for slash
1080 1474 2 ;'/ );
1081 1475 2
1082 1476 2
1083 1477 2 | If no slash, or a null username, return FALSE
1084 1478 2
1085 1479 2
1086 1480 2 IF .ptr EQL 0 OR
1087 1481 2 .ptr EQL .user_ptr
1088 1482 2 THEN RETURN false;
1089 1483 2
1090 1484 2
1091 1485 2 | Otherwise, compute the username length
1092 1486 2
1093 1487 2
1094 1488 2 user_len = .ptr - .user_ptr;
1095 1489 2
1096 1490 2
1097 1491 2 | Copy the node and username to NET_KEY, the key buffer that RMS will
1098 1492 2 use to look for the specified record.
1099 1493 2
1100 1494 2 CH$COPY ( ;node_len, .node_ptr,           ! Copy the nodename
1101 1495 2 ;naf$node, net_record[naf$node]);      ! Padded with blanks
1102 1496 2
1103 1497 2 CH$COPY ( ;user_len, .user_ptr,           ! To the key buffer
1104 1498 2 ;naf$remuser, net_record[naf$remuser]); ! Copy the username
1105 1499 2 ;naf$remuser, net_record[naf$remuser]); ! Padded with blanks
1106 1500 2
1107 1501 2
1108 1502 2
1109 1503 2 | Now perform a SGET, so see if there is a record in NETUAF that
1110 1504 2 | exactly matches the node and username specified. If no exact match
```

```

1111 1505 2 | is found, wildcarding is applied in the following order:
1112 1506 2 |   Wildcard node, specific user
1113 1507 2 |   Specific node, wildcard user
1114 1508 2 |   Wildcard node, wildcard user
1115 1509 2 |
1116 1510 2 |
1117 1511 2 | If a match is found, then it is used and no further checking is done.
1118 1512 2 |
1119 1513 3 IF NOT ($GET (RAB = netrab))
1120 1514 2 THEN
1121 1515 3 BEGIN
1122 1516 3 CH$COPY ( 1, UPLIT ('*'),                                ! Put in wildcard node
1123 1517 3
1124 1518 3     naf$node, net_record[naf$node]);
1125 1519 4 IF NOT ($GET (RAB = netab))
1126 1520 3 THEN
1127 1521 4 BEGIN
1128 1522 4     CH$COPY ( .node_len, .node_ptr,                      ! Specific node,
1129 1523 4
1130 1524 4     naf$node, net_record[naf$node]);
1131 1525 4     CH$COPY ( 1, UP$IT ('*'),                                ! Wildcard user
1132 1526 4
1133 1527 4     naf$remuser, net_record[naf$remuser]);
1134 1528 5 IF NOT ($GET (RAB = netrab))
1135 1529 4 THEN
1136 1530 5 BEGIN
1137 1531 5     CH$COPY ( 1, UPLIT ('*'),                                ! Wildcard node and user
1138 1532 5
1139 1533 5     naf$node, net_record[naf$node]);
1140 1534 6 IF NOT ($GET (RAB = netrab))
1141 1535 5 THEN
1142 1536 6 BEGIN
1143 1537 6     $CLOSE(FAB = netfab);
1144 1538 6     RETURN false;                                         ! If no matches, return false
1145 1539 5 END;
1146 1540 4 END;
1147 1541 3 END;
1148 1542 2 END;
1149 1543 2 |
1150 1544 2 | Close NETUAF
1151 1545 2 |
1152 1546 2 |
1153 1547 2 $CLOSE (FAB = netfab);
1154 1548 2 |
1155 1549 2 | If we get here, then a match was found. Check to see if the local username
1156 1550 2 | is actually a "*", in which case copy the remote username to the local
1157 1551 2 | username.
1158 1552 2 |
1159 1553 2 |
1160 1554 2 IF .VECTOR [net_record[naf$localuser]. 0; .BYTE] EQL '*'
1161 1555 2 THEN CH$COPY ( .user_len, .user_ptr,
1162 1556 2
1163 1557 2     naf$localuser, net_record[naf$localuser]);
1164 1558 2 |
1165 1559 2 |
1166 1560 2 | Now fill in the user descriptor with the local username, and call
1167 1561 2 | GET_UAFREC, to get the UAF record without checking for password.

```

```
1168 1562 2 !
1169 1563 2
1170 1564 2 user_desc[0] = naf$$_localuser;
1171 1565 2 user_desc[1] = net_record[naf$$t_localuser];
1172 1566 2
1173 1567 2 get_uafrec (user_desc);
1174 1568 2
1175 1569 2
1176 1570 2 ! Done. If a UAF record was found, return TRUE. Otherwise return FALSE.
1177 1571 2 !
1178 1572 2
1179 1573 2 RETURN (.uaf_record NEQ 0);
1180 1574 1 END;
```


: Routine Size: 490 bytes. Routine Base: \$C008 + 0625

: 1182 1575 1 END
: 1183 1576 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	299	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	128	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	2063	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Symbols -----			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	163	0	1000	00:01.4

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:DETACHED/OBJ=OBJ\$:DETACHED MSRC\$:DETACHED/UPDATE=(ENHS:DETACHED)

: Size: 2063 code + 427 data bytes
: Run Time: 00:31.3
: Elapsed Time: 02:05.2
: Lines/CPU Min: 3020
: Lexemes/CPU-Min: 38117
: Memory Used: 286 pages
: Compilation Complete

0221 AH-BT13A-SE
VAX/VMS V4.0

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